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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,160	07/21/2003	Atsushi Takai	500.30802CC4	2704
20457	7590 06/29/2005		EXAMINER	
	LI, TERRY, STOUT & H SEVENTEENTH STRE	SINGH, DALZID E		
	SUITE 1800			PAPER NUMBER
ARLINGTON, VA 22209-3873			2633	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/623,160	TAKAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Dalzid Singh	2633			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nety filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 04 February 2005.					
<u> </u>					
3) Since this application is in condition for allowa	,—				
Disposition of Claims					
4) Claim(s) 35-52 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 35-52 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		·			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)	atent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 35-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki (US Patent No. 4,845,703).

Regarding claims 35 and 46, Suzuki discloses optical transmission system, as shown in Fig. 1, comprising:

an optical frequency selection unit (40) for selecting an optical signal of a first optical frequency (the optical signal of a first frequency, such as $\lambda 1$ - $\lambda 4$, is selected by the optical selection unit); and

an optical frequency conversion unit (30 or 50) for converting said first optical frequency to a second optical frequency (see col. 6, lines 1-21).

Suzuki discloses transmission and reception of optical signal from subscribers or terminals and differs from the claimed invention in that Suzuki does not specifically disclose that the optical signal correspond to a particular apparatus. However, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to assign specific optical signal to correspond to a particular apparatus or terminal. For example, a new optical signal can be assign to a particular apparatus to

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carry specific bandwidth. One of ordinary skill in the art would have been motivated to do such in order to provide reliable communication system.

Regarding claims 36 and 47, as discussed above, Suzuki discloses the optical frequency selection unit (40) and optical frequency conversion unit (30 or 50) and differs from the claimed invention in that Suzuki does not specifically disclose that the optical signal correspond to a particular apparatus. However, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to assign specific optical signal to correspond to a particular apparatus or terminal.

Regarding claims 37 and 48, as shown in Fig. 2, Suzuki discloses a wavelength demultiplexer (20) for demultiplexing said plurality of optical signals which are transmitted in a multiplexed manner on an optical transmission line connecting said first apparatus and said transmission apparatus.

Regarding claims 38 and 49, as shown in Fig. 2, Suzuki discloses a wavelength multiplexer (10) for multiplexing a plurality of optical signals each having said second optical frequency.

Regarding claims 39 and 50, as shown in Fig. 2, Suzuki discloses a control unit (60) for allotting frequency to apparatus and indicating to said optical frequency conversion unit that said second optical frequency is allotted to the apparatus.

Regarding claims 40 and 51, Suzuki discloses that the control unit is notified from said apparatus that said optical frequency corresponds to apparatus, and said control unit indicates to said optical frequency selection unit that said optical frequency corresponds to said apparatus (see col. 5, lines 16-35 and col. 6, lines 1-21, lines 62-68

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to col. 7, lines 1-40; optical signal is selected based on the address location of the optical signal which is transmitter from a source station to a destination station) and differs from the claimed invention in that Suzuki does not specifically disclose that the optical signal correspond to a particular apparatus. However, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to assign specific optical signal to correspond to a particular apparatus or terminal.

Regarding claims 41 and 52, as discussed above, Suzuki discloses a control unit for allotting frequency to said apparatuses and indicating to said optical frequency conversion unit that said optical frequency is allotted to said second and this apparatuses (see col. 5, lines 16-35 and col. 6, lines 1-21, lines 62-68 to col. 7, lines 1-40; it would have been obvious that in determining idle channel, the control unit determined that a particular wavelength is allotted to a particular apparatus).

Regarding claim 42, Suzuki discloses optical transmission system, as shown in Fig. 2, comprising:

a control unit (60) for allotting a optical frequency to an optical signal to be transmitted from apparatus among said plurality of apparatuses; and

an optical frequency conversion unit (30 or 50) for converting said optical frequency of said optical signal transmitted from apparatus to optical frequency corresponding to apparatus.

Suzuki discloses transmission and reception of optical signal from subscribers or terminals and differs from the claimed invention in that Suzuki does not specifically disclose that the optical signal correspond to a particular apparatus. However, it would

have been obvious to an artisan of ordinary skill in the art at the time the invention was made to assign specific optical signal to correspond to a particular apparatus or terminal. For example, a new optical signal can be assign to a particular apparatus to carry specific bandwidth. One of ordinary skill in the art would have been motivated to do such in order to provide reliable communication system.

Regarding claim 43, Suzuki discloses that the control unit allot said optical frequency to each of optical signals to be transmitted from said apparatus and a this apparatus among said plurality of apparatuses, and said optical frequency conversion unit convert said first optical frequency (see col. 5, lines 16-35 and col. 6, lines 1-21, lines 62-68 to col. 7, lines 1-40; optical signal is selected based on the address location of the optical signal which is transmitter from a source station to a destination station) and differs from the claimed invention in that Suzuki does not specifically disclose that the optical signal correspond to a particular apparatus. However, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to assign specific optical signal to correspond to a particular apparatus or terminal..

Regarding claim 44, as shown in Fig. 2, Suzuki discloses a wavelength multiplexer (10) for multiplexing said optical signal of said optical frequency and said optical signal of said another optical frequency.

Regarding claim 45, as shown in Fig. 2, Suzuki discloses that the control unit (60) is notified from said apparatus that said optical frequency corresponds to said another apparatus (see col. 5, lines 16-35 and col. 6, lines 1-21, lines 62-68 to col. 7,

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lines 1-40; it would have been obvious that in determining idle channel, the control unit determined that a particular wavelength is allotted to a particular apparatus).

Response to Arguments

3. Applicant's arguments with respect to claims 45-45 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suzuki et al (US Patent No. 5,018,130) is cited to show high-speed optical packet switching.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalzid Singh whose telephone number is (571) 272-3029. The examiner can normally be reached on Mon-Fri 9am 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272--3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DS June 25, 2005

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